

Amendments to the Abstract:

Please amend the Abstract as follows:

~~The invention concerns a real time multi-task operating process in which a set of observation windows of a fixed parameterisable duration are defined including:~~

~~—an allocation stage of a maximum execution duration for each task in each observation window during which a scheduler guarantees a minimum execution time for tasks with lower priority.~~

~~—A calculation stage for the time consumed by each task during each observation window~~

~~—A sanction stage during which the tasks which exceed their quota in a given observation window are sanctioned and can only regain the central unit resource during the following observation window.~~

~~The invention also concerns a real time multi-task operating system.~~

Figure 3

The invention provides for a real-time multi-task operating process in which a set of fixed adjustable duration observation windows are defined having an allocation stage, in each observation window, of a maximum execution duration for each task, during which a scheduler guarantees a minimum execution time for lower priority tasks; a calculation stage for the time used by each task during each observation window; and a sanction stage during which the tasks, which exceed their quota in a given observation window, are sanctioned and can only return to a central resource unit during the following observation window.